

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL PERMIT

PERMIT NUMBER: 1975-EB-1316-OP

DATE ISSUED: October 8, 1975  
PROJECT LOG NUMBERS: 769-75

SUBJECT: CABOT CORPORATION - Industrial Waste Disposal Well #1 - Tuscola, Illinois  
(Douglas County)

Cabot Corporation  
P.O. Box 188  
Tuscola, Illinois 61953

Supp. #1 = 12/17/75  
#2 = 2/25/76  
attached  
L.K.

Permit is hereby granted to Cabot Corporation, Tuscola, Illinois, to operate existing water pollution control facilities for the deep well injection of waste produced at the plant site. This Permit is based on documents received by this Agency on July 17, 1975, and on previously submitted documents which described the deep well system prior to and after completion.

This Permit renews and replaces Permit #1974-EB-1664-OP dated October 21, 1974.

This Operating Permit expires two (2) years from the date of issuance.

This Permit is issued for the injection of waste at a maximum rate of 300 gpm and at a maximum injection pressure of 50 psig.

Standard Conditions of issuance of this Permit are itemized below. Special  
READ ALL CONDITIONS CAREFULLY: (continued)  
STANDARD CONDITIONS

1. If any statement or representation is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder.

2. During or after the construction or the installation of the facilities covered by this permit any agent duly authorized by the Illinois Environmental Protection Agency shall have the right to inspect such facilities and its operation.

3. The issuance of this permit (a) shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located; (b) does not release the permittee from any liability for damage to person or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (c) does not take into consideration the structural stability of any units or parts of the project; and (d) does not release the permittee from compliance with other applicable statutes of the State of Illinois or with applicable local laws, regulations or ordinances.

4. Treatment works will be operated or supervised by a duly qualified treatment works operator certified under the Regulations of the Illinois Environmental Protection Agency.

5. The facilities covered by this permit shall be constructed and operated in compliance with the provision of the Illinois Environmental Protection Act and Chapter 3 of the Rules and Regulations as adopted by the Illinois Pollution Control Board.

This permit is issued in accordance with the Illinois Environmental Protection Act of 1970 and the Chapter III Water Pollution Regulations adopted pursuant thereto by the Illinois Pollution Control Board.

TRW:JRL:ch

cc: Region III-Champaign  
Illinois State Water Survey  
Illinois State Geological Survey  
Illinois Department of Mines & Min.  
Division of Waterways  
Executive Director, ORSANCO

WPC:14SEPA

Cabot Corporation, Pampa, Texas

6. Plans, specifications and other documentation submitted shall constitute a part of the application and when approved shall constitute part of this permit.

7. This Permit may not be assigned or transferred without a new permit from the Illinois Environmental Protection Agency.

8. There shall be no deviations from the approved plans and specifications unless revised plans, specifications and application shall first have been submitted to the Illinois Environmental Protection Agency and a supplemental permit issued.

9. The installation shall be made under the supervision of an inspector, who is familiar with the approved plans and specifications provided by and approved by the owner, and said inspector shall require that construction comply with the plans and specifications approved by this Agency.

10. Unless otherwise stated by Special Condition, construction must be completed in three years for treatment works and two years for sewers and wastewater sources.

11. Discharges into the sanitary sewer(s) constructed under this permit shall consist of wastewater only. Storm waters shall not be permitted to enter the sanitary sewer(s). Roof and footing drains shall not be connected to the sanitary sewer(s) constructed under this permit.

DIVISION OF WATER POLLUTION CONTROL

William H. Busch by T. R. Wallin

William H. Busch,  
Manager, Permit Section

EPA Region 5 Records Ctr.



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Conditions applicable are itemized on the following pages.

The wastes to be injected consist of hydrochloric acid, chloridic salts, and silicon dioxide particulates from Cabot Corporation; nitric acid, zinc nitrate, trisodium phosphate, and aromatic solvent from R.R. Donnelly Company (averaging 30 tons per month); approximately 80,000 gallons/month from A.E. Staley Manufacturing Company.

The injection wastes should be sampled daily (if waste is injected) at the wellhead and a weekly composite sample made and analyzed. The analysis report should show all parameters which are in significant amounts or which are needed to adequately characterize the wastes.

Monthly operating reports must be submitted in one copy each to the following four addressees:

1. Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Permit Section  
2200 Churchill Road  
Springfield, Illinois 62706
2. Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Field Operations Section  
Region III  
2125 South First  
Champaign, Illinois 61820
3. Illinois State Water Survey  
Post Office Box 232  
Urbana, Illinois 61801
4. Illinois State Geological Survey  
Natural Resources Building  
University of Illinois  
Urbana, Illinois 61801

The transmittal letter should show that the above addressees were sent a copy of the report.

The operational reports shall contain as a minimum the following:

1. the total number of hours of injection during each day.
2. the total number of gallons of waste injected each day.
3. the total number of gallons of waste injected during the month and the total number of gallons of waste injected since the well began operation.

4. the maximum injection pressure for each day.
5. the maximum injection rate for each day.
6. the maximum and minimum annulus pressure for each day.
7. analyses from the weekly sampling of the injection waste.
8. at least monthly, the viscosity and specific gravity should be measured; the temperature of the sample at the time of collection and the temperature of the sample at the time of measurement both should be recorded and reported.
9. a summary of any operational difficulties encountered, including reasons for any alarms and a description of any changes in the operation of the deep well systems or wastes injected; if any maintenance is performed during the month, a detailed report shall be submitted, including a written daily description of activities during the rework period, copies of logs run, and a revised well drawing showing casing, injection tubing and downhole appurtenances (showing material description, specifications and model designation, manufacturer, etc.), names and addresses of service companies performing the service function, and Company's consultant name supervising the repair work.
10. Once per quarter, a representative set of well operation charts for a one week period shall be submitted along with the monthly report.

A permanent record should be kept of all recording charts for the deep well instruments. These records should be open to reasonable inspection by appropriate State agencies.

The Permit Section of the Division of Water Pollution Control should be notified immediately if any situation occurs which could result in pollution of the waters of the State.

SPECIAL CONDITIONS:

SPECIAL CONDITION #1: As described in documents submitted to the Illinois Environmental Protection Agency, well inspections should be made every six months or as necessary, and the results, including copies of logs, reported in the regular monthly operational report.

SPECIAL CONDITION #2: Should changing injection conditions so warrant during the term of this permit, the Agency may require modifications to the deep well injection facilities including surface works and down hole facilities, to insure the integrity of the system and to insure adequate protection to the waters of the State (both surface and subsurface). In addition, the Agency may require that injection of wastes cease either temporarily or permanently and that if necessary to abandon the well, that it be properly plugged in accordance with procedures acceptable to the Agency and the Illinois Department of Mines and Minerals.